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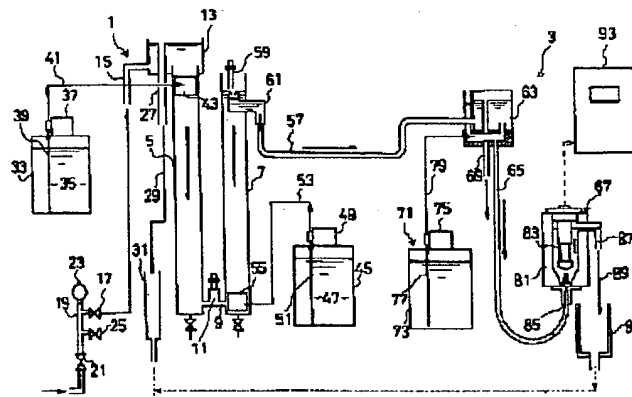
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TITLE : MEASUREMENT OF RESIDUAL CHLORINE



ABSTRACT : PURPOSE: To grasp the concn. of residual chlorine at an early stage by shortening the time reaction of chlorine with ammonia nitrogen in chlorine treated water by applying pH control to sample water being chlorine treated water.

CONSTITUTION: Sample water treated with chlorine is supplied to an overflow tank 13 through sample water supply pipelines 19, 15 and a dilute sulfuric acid soln. 35 is poured into the upper part of an acidity adjusting tank 5 through a diffuser 43 to make sample water acidic. This acidic sample water is supplied to an alkalinity adjusting tank 7 through a communication pipe 9 while the pH thereof is confirmed by an electrode 11. A sodium bicarbonate soln. 47 is poured into the tank 7 through a diffuser 55 to make the sample water alkaline. This alkaline sample water is sent to a residual chlorine concn. measuring means 63 through piping 57 while the pH thereof is confirmed by an electrode 59 and the concn. of residual chlorine is measured by an electrode part 83. Namely, a dichloramine forming reaction time can be shortened by making treated water acidic and a dichloramine decomposing time and a nitrogen forming reaction time can be shortened by making treated water alkaline and, by the pH control of sample water, the reaction speed of ammonia nitrogen and chlorine is increased.

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